

<b>Project Title:</b>	Linking the physical and chemical characteristics of Qdots to their toxicity
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Publication Title	Authors	Journal (Pub date)	Volume/Page	PubMed Link
A minimized designer protein for facile biofabrication of ZnS:Mn immuno-quantum dots.	Zhou, Weibin; Swift, Brian J F; Baneyx, François	Chem Commun (Camb) (2015 Feb 28)	51 / 3515-7	PubMed Citation
Amphiphilic polymer-coated CdSe/ZnS quantum dots induce pro-inflammatory cytokine expression in mous ...	Lee, Vivian; McMahan, Ryan S; Hu, Xiaoge; Gao, Xiaohu; Faustman, Elaine M; Griffith, William C; Kavanagh, Terrance J; Eaton, David L; McGuire, John K; Parks, William C	Nanotoxicology (2015 May)	9 / 336-43	PubMed Citation
Aqueous, protein-driven synthesis of transition metal-doped ZnS immuno-quantum dots.	Zhou, Weibin; Baneyx, Francois	ACS Nano (2011 Oct 25)	5 / 8013-8	PubMed Citation
Biofabrication of ZnS:Mn luminescent nanocrystals using histidine, hexahistidine, and His-tagged pro ...	Zhou, Weibin; Baneyx, François	Biochem Eng J (2014 Aug 15)	89 / 28-32	PubMed Citation
Biomineralization and size control of stable calcium phosphate core-protein shell nanoparticles: pot ...	Chiu, David; Zhou, Weibin; Kitayaporn, Sathana; Schwartz, Daniel T; Murali-Krishna, Kaja; Kavanagh, Terrance J; Baneyx, François	Bioconjug Chem (2012 Mar 21)	23 / 610-7	PubMed Citation
Carbon-binding designer proteins that discriminate between sp <sub>2</sub> - and sp <sub>3</sub> -hybridized carbon surfaces.	Coyle, Brandon L; Rolandi, Marco; Baneyx, Francois	Langmuir (2013 Apr 16)	29 / 4839-46	PubMed Citation
Emerging applications of conjugated polymers in molecular imaging.	Li, Junwei; Liu, Jie; Wei, Chen-Wei; Liu, Bin; O'Donnell, Matthew; Gao, Xiaohu	Phys Chem Chem Phys (2013 Oct 28)	15 / 17006-15	PubMed Citation
Heme oxygenase expression as a biomarker of exposure to amphiphilic polymer-coated CdSe/ZnS quantum ...	McConnachie, Lisa A; White, Collin C; Botta, Dianne; Zadworny, Megan E; Cox, David P; Beyer, Richard P; Hu, Xiaoge; Eaton,	Nanotoxicology (2013 Mar)	7 / 181-91	PubMed Citation

In vitro toxicity assessment of amphiphilic polymer-coated CdSe/ZnS quantum dots in two human liver ...	David L; Gao, Xiaohu; Kavanagh, Terrance J Smith, Wesley E; Brownell, Jessica; White, Collin C; Afsharinejad, Zahra; Tsai, Jesse; Hu, Xiaoge; Polyak, Stephen J; Gao, Xiaohu; Kavanagh, Terrance J; Eaton, David L	ACS Nano (2012 6 / 9475-84 Nov 27)	PubMed Citat
In vivo approaches to assessing the toxicity of quantum dots.	Scoville, David K; Schaupp, Christopher M; Baneyx, Fran�ois; Kavanagh, Terrance J Bonner, James C; Silva, Rona M; Taylor, Alexia J; Brown, Jared M; Hilderbrand, Susana C; Castranova, Vincent; Porter, Dale; Elder, Alison; Oberdorster, Gunter; Harkema, Jack R; Bramble, Lori A; Kavanagh, Terrance J; Botta, Dianne; Nel, Andre; Pinkerton, Kent E	Methods Mol Biol (2014)	1199 / 179-90 PubMed Citat
Interlaboratory evaluation of rodent pulmonary responses to engineered nanomaterials: the NIEHS Nano ...	Zhou, Weibin; Moguche, Albanus O; Chiu, David; Murali-Krishna, Kaja; Baneyx, Francois Li, Junwei; Arnal, Bastien; Wei, Chen-Wei; Shang, Jing; Nguyen, Thu-Mai; O'Donnell, Matthew; Gao, Xiaohu	Environ Health Perspect (2013 Jun)	121 / 676-82 PubMed Citat
Just-in-time vaccines: Biomineralized calcium phosphate core-immunogen shell nanoparticles induce lo ...	Swift, Brian J F; Baneyx, Fran�ois Hu, Xiaoge; Gao, Xiaohu Shang, Jing; Gao, Xiaohu	Nanomedicine (2014 Apr)	10 / 571-8 PubMed Citat
Magneto-optical nanoparticles for cyclic magnetomotive photoacoustic imaging.	Li, Junwei; Arnal, Bastien; Wei, Chen-Wei; Shang, Jing; Nguyen, Thu-Mai; O'Donnell, Matthew; Gao, Xiaohu Weldon, Brittany A; M Faustman, Elaine; Oberd�rster, G�nter; Workman, Tomomi; Griffith, William C; Kneuer, Carsten; Yu, Il Je	ACS Nano (2015 9 / 1964-76 Feb 24)	PubMed Citat
Microbial Uptake, Toxicity, and Fate of Biofabricated ZnS:Mn Nanocrystals.	Swift, Brian J F; Baneyx, Fran�ois Hu, Xiaoge; Gao, Xiaohu Shang, Jing; Gao, Xiaohu	PLoS One (2015)	10 / e0124916 PubMed Citat
Multilayer coating of gold nanorods for combined stability and biocompatibility.	Hu, Xiaoge; Gao, Xiaohu Weldon, Brittany A; M Faustman, Elaine; Oberd�rster, G�nter; Workman, Tomomi; Griffith, William C; Kneuer, Carsten; Yu, Il Je	Phys Chem Chem Phys (2011 Jun 7)	13 / 10028-35 PubMed Citat
Nanoparticle counting: towards accurate determination of the molar concentration.	Shang, Jing; Gao, Xiaohu Weldon, Brittany A; M Faustman, Elaine; Oberd�rster, G�nter; Workman, Tomomi; Griffith, William C; Kneuer, Carsten; Yu, Il Je	Chem Soc Rev (2014 Nov 7)	43 / 7267-78 PubMed Citat
Occupational exposure limit for silver nanoparticles: considerations on the derivation of a general ...	Weldon, Brittany A; M Faustman, Elaine; Oberd�rster, G�nter; Workman, Tomomi; Griffith, William C; Kneuer, Carsten; Yu, Il Je	Nanotoxicology (2016 Sep)	10 / 945-56 PubMed Citat

Stably Doped Conducting Polymer Nanoshells by Surface Initiated Polymerization.	Li, Junwei; Yoon, Soon Joon; Hsieh, Bao-Yu; Tai, Wanyi; O'Donnell, Matthew; Gao, Xiaohu	Nano Lett (2015 Dec 9)	15 / 8217-22	PubMed Citat
Susceptibility to quantum dot induced lung inflammation differs widely among the Collaborative Cross ...	Scoville, David K; White, Collin C; Botta, Dianne; McConnachie, Lisa A; Zadworny, Megan E; Schmuck, Stefanie C; Hu, Xiaoge; Gao, Xiaohu; Yu, Jianbo; Dills, Russell L; Sheppard, Lianne; Delaney, Martha A; Griffith, William C; Beyer, Richard P; Zangar, Richard C; Pounds, Joel G; Faustman, Elaine M; Kavanagh, Terrance J	Toxicol Appl Pharmacol (2015 Dec 01)	289 / 240-50	PubMed Citat
The glutathione synthesis gene Gclm modulates amphiphilic polymer-coated CdSe/ZnS quantum dot-induce ...	McConnachie, Lisa A; Botta, Dianne; White, Collin C; Weldy, Chad S; Wilkerson, Hui-Wen; Yu, Jianbo; Dills, Russell; Yu, Xiaozhong; Griffith, William C; Faustman, Elaine M; Farin, Federico M; Gill, Sean E; Parks, William C; Hu, Xiaoge; Gao, Xiaohu; Eaton, David L; Kavanagh, Terrance J	PLoS One (2013)	8 / e64165	PubMed Citat
Toxicity and oxidative stress induced by semiconducting polymer dots in RAW264.7 mouse macrophages.	Ye, Fangmao; White, Collin C; Jin, Yuhui; Hu, Xiaoge; Hayden, Sarah; Zhang, Xuanjun; Gao, Xiaohu; Kavanagh, Terrance J; Chiu, Daniel T	Nanoscale (2015 Jun 14)	7 / 10085-93	PubMed Citat
Trapping and photoacoustic detection of CTCs at the single cell per milliliter level with magneto-op ...	Hu, Xiaoge; Wei, Chen-Wei; Xia, Jinjun; Pelivanov, Ivan; O'Donnell, Matthew; Gao, Xiaohu	Small (2013 Jun 24)	9 / 2046-52, 2045	PubMed Citat